

Attachment 2. Conservation Measures Implemented	
Date	Measure Taken
07/22-23/2020	Right bank slowly dewatered. No fish observed by crew.
07/24/2020	Crew and fish biologist performed fish recovery in fish ladder after flows redirected to allow liner installation at ladder. Efforts consisted of seining and hand dip-netting. Two rainbow trout (approx. 150 – 200 mm) recovered, placed in aerated buckets and immediately returned to river below diversion in excellent condition. No other fish sighted. Ladder not dewatered.
07/30/2020 – 08/07/2020	Electron staff identified, recovered and removed 550 sq. yds. of ruptured HDPE liner and field turf from the river channel.
08/06/2020	Small oil scum/sheen seen on surface of settling pond. Origin likely organic in nature (crushed wood and plant oils). Oil boom deployed upon observation of scum.
08/09-10/2020	EH consultant performed site inspection. Additional HDPE liner, field turf, and crumb rubber identified for removal from river.
08/13/2020	Fish ladder observed for sign of adult salmonid migration. Observation included monitoring for jumping or leaping at attractant flows around base of fish ladder, and fish staging/holding around base of ladder.
08/26/2020	Fish ladder observed for sign of adult salmonid migration. Observation included monitoring for jumping or leaping at attractant flows around base of fish ladder, and fish staging/holding around base of ladder.
09/14/2020	Fish ladder observed for sign of adult salmonid migration. Observation included monitoring for jumping or leaping at attractant flows around base of fish ladder, and fish staging/holding around base of ladder.
09/22/2020	Fish ladder observation occurred after reports of staff seeing fish. Three fish sightings confirmed. Fish ID'd as Chinook. Management notified of fish presence.
09/23/2020	Dedicated daily observation of fish ladder began with construction commencement. No fish observed. Fish biologist identified location of imminent plastic erosion.
09/24/2020	Visual difference in turbidity at conveyance ditch vs. river. Construction halted from 10:00 to 10:45 to allow for turbidity to decrease. At 10:45, turbidity visually clearer than river, and construction continues. River inspection walk: previously identified plastic from 09/23/2020 was located and removed from the river.
09/25/2020	Excavator hydraulic hose leaks on land location below OHWM. Fish oil spill response is immediate, and spill contained within 20 minutes. No oil contact with river. River inspection walk identified small pieces of turf, and turf was secured and removed.
09/26/2020	First salmonid migrant sightings at fish ladder after first significant rain event of the season (09/23-09/25) brought large bump in river cfs, significant drop in background turbidity, and drop in ambient air and water temperatures. River inspection walk conducted. No rupture debris found.

09/27/2020	River had breached previously dry area upstream of the cofferdam overnight. Breach pool was assessed for possible fish recovery needs. Performed fish recovery. No fish sighted. A blockage at the downstream end of this pool was removed by hand to allow connectivity to the river.
09/28/2020	Turbid water observed running through worksite and conveyance ditch. Crews asked to standby while pump 3 was turned on and turbid water routed through mitigation area. Discharge to river was tested and turbidity did not exceed background. Work continued after sampling results. River inspection walk conducted. Turf and plastic debris identified, compiled, and removed.
09/29/2020	A diesel cap was observed missing from a haul truck. Ounces of diesel were cleaned up immediately, and the cap was replaced. Breach pool re-assessed once turbidity settled. Confirmed no fish sighted.
09/30/2020	Attempts made at placing rock above upper entrance to fish ladder to decrease flow to ladder.
10/03/2020	Rocks placed at downstream entrance of fish ladder to attempt fix of passage issues. Concrete water runoff treated with CO ₂ to decrease high pH. Water within pH parameters at point of discharge.
10/04/2020	Concrete water runoff treated with CO ₂ to decrease high pH. Water within pH parameters at point of discharge.
10/05/2020	Fish ladder downstream entrance revisited. Passage remedied by creation of two rock step pools in ladder tailrace.
10/06/2020	Per WQMP change, water infiltrating worksite downstream of spillway was tested and found to be significantly lower in NTU than river background. This water was pumped back to the river before reaching worksite.
10/08/2020	Turbid water at worksite was pumped to the conveyance channel as per BMP. No turbid discharge reached the river; mitigation successful.
10/09/2020	Sampling of concrete runoff downstream of worksite indicated pH above background. Concrete water runoff treated with CO ₂ to decrease high pH. Water within pH parameters at point of discharge.
10/15/2020	Concrete water runoff treated with CO ₂ to decrease high pH. Water within pH parameters at point of discharge. Road access maintenance caused increase in turbidity; operator halted work until turbidity decreased successfully.
10/19/2020	Fish ladder monitoring: last adult salmon migrant sighting of the year.
10/25/2020	Crews and fish biologist cleared dewatered right bank and fish ladder in extensive fish recovery effort. Recovery included the use of a 15 ft. seine net, water containers, and several handheld dipnets. One fish (rainbow trout, 220 mm) recovered and returned to river downstream of spillway in excellent condition. Fish ladder cells partially dewatered using screened 3" pumps. Cells seined prior to pumping and dipnetted after water level was reduced. WDFW observing.
10/26/2020	River inspection walk conducted.

10/26-28/2020	All foreign material (turf, felt liner, HDPE liner, conexes, sandbags, equipment) removed from the bypass channel. Channel graded and restored. Natural woody debris and downed logs replaced below spillway.
10/28/2020	All in-water work completed.
10/30/2020	River inspection walk conducted. Most turf and liner ID'd by PTOI found, collected, and removed from Puyallup River and LeDout Creek.
11/02/2020	River inspection walk conducted. Debris identified, collected, and removed.
11/03/2020	All remaining debris at LeDout Creek ID'd by PTOI was found and removed.
09/23/2020 – 11/15/2020	Fish ladder function monitored daily by on-site biologist.